

METHOD AND SYSTEM FOR SELECTING AN OPTIMAL ASYMMETRIC
DIGITAL SUBSCRIBER LINE MODE

ABSTRACT

5 A method and system of the present inventions are directed to selecting an
optimal mode for ADSL operation based near/far end modem capability, loop length and
capacity in the upper bands of modes of operation. A method for switching among a
plurality of modes for ADSL modem operation may include the steps of determining a far
end modem's capability for supporting one or more of a base mode, a first mode and a
10 second mode; determining a loop length between a near end modem and the far end
modem; determining a capacity in an upper band of the first mode and the second mode;
and selecting an appropriate mode based on a combination of the far end modem's
capability, the loop length and the capacity in the upper band.